

Receiving Report

Date:

B-2-13

Batch No:

124629

Supplier:

Thyssenkrupp

Dart P/O:

19032

Packing Slip: Yes ☒ No ☐
Invoice: Yes ☒ No ☐
Receipt: Cash ☐ Cr ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐
Waybill Attached: Yes ☐ No ☒ N/A ☐
Shipment Complete: Yes ☒ No ☐ N/A ☒
QC6 Inspection: 13/02/17 N/A ☒
Work Order: N/A ☒

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments
174SS	Par. 250 x 400	48.00	0		48.00	
606/T6	Bar. 625 x 250	24.00	0		24.00	

Initials of receiver (if shipment OK) Level 12

SP

Production/Admin:

Date

13-2-13

Received/Costing

Initial

SP

Location

doi:10.1371/journal.pone.0142808.g001

Wednesday, February 13, 2013 2:41:25 PM

All Line Item Types

Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID \ Vendor Name VC-COP001 Thyssenkrupp Materials CA Ltd											
PO19032	4		M6061T6S.032 sf		2/15/2013 2/13/2013		336.0000	\$1.28	0.0000	0	\$431.66
CAD	No		6061-T6 Sheet 0.032" sf 124629		336.0000 DESJ02			\$431.66	0.0000	0	
	7		M6061T6B2.000X02. f 250		2/15/2013 2/13/2013		12.0000	\$13.10	0.0000	0	\$157.22
	No		6061-T6 Bar 2.00 x f 2.25 124629		12.0000 DESJ02			\$157.22	0.0000	0	
Total Received Quantity:										348.0000	
Total Qty to Inspect (PO U/M):										0.0000	
Total Reject Quantity:										0.0000	
Total Receipt Value:										\$588.88	
Total Balance Due Quantity:										0.0000	

Ship From: B I L L O F L A D I N G
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

No: PEC 807704
Ship Date 12Feb13 at 15:34 From PFW
Probill
Via VIM TRANSFER
FOB CONCORD
Frnt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7
4/05

Ship To: (1)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7
Tel: 613-632-9577 Fax: 613-632-1053

B I L L O F L A D I N G
1) Our Order PEC-535057- 1 Your PO # 19032
ALUMINUM SHEET 6061 T6

.0320 Nom X 48.0000" X 144.0000"

Heat Number Tag No
694923 150273

Quantity PCS
336.00 SFT 7

Wt LBS
152

MTR

2) Our Order PEC-535057- 2 Your PO # 19032
ALUMINUM FLAT BAR 6061-T6511

2.00" x 2.25" X 144.0000"

Heat Number Tag No
21290617 150274

Quantity PCS
12 FT 1

Wt LBS
63

MTR

TOTAL: Tags PCS
2 8

LBS
215

Heat Number
694923

*** Chemical Analysis ***

ADD ON TO 534750 SUR-CHARGE ADDED

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
** REFERENCED ON IT **

TOTAL (1,2) 1 SKID, 1 BAR GW. 365 LBS

Page: 1Continued

SP 13-2-13.

1 = CR
1 pce

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

Ship From: B I L L O F L A D I N G
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

No: PEC 807704
Ship Date 12Feb13 at 15:34 From PFW
Probill
Via VIM TRANSFER
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE

Ship To: (1)
DART AEROSPACE

B I L L O F L A D I N G

*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA
CONCORD, ONT.* *** 9:00 AM TO 4:00 PM ***
**** TEL. 800-926-2600 ****

* WE STOCK STAINLESS STEEL *

* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE
ADDED TO EVERY ORDER.***

Page: 2 Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

CERTIFIED INSPECTION REPORT

Alcoa Inc.

DAVENPORT WORKS 4879 State Street Bettendorf, IA 52722

Ship From: RIVERDALE, IA.

We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet the applicable requirements described therein, including any specifications forming a part of the description and test samples representative of the material met the composition limits and had the mechanical properties shown on the face of this sheet.

1468552 Ship Date 0 B.L. No. Invoice No. Alcoa No. Item
10004239575-7 DB-29575-7

P.O. No./Rev. Contract No. Customer Alcoa From 5400158547 Ln#: 0010 C&B G041099100R04

Rob Woodall Director of Manufacturing Davenport, Iowa

Page 1 of 2

Ship To: COPPER & BRASS SALES INC
905 CARLOW DRIVE
UNIT D
BOLINGBROOK 60490 IL

Item Description
0.032 IN TK (+0.0000 -.0025) X 48.0 IN W (+.125 -.125) X 144.0 IN LN (+.15625 -.15625) CAT X 063485-7 (N) A/T 6061-16 FLAT SHEET FOR DISTRIBUTORS TOLERANCE
GUARANTEED ALFLO1643, AMS4027 REV N EXC_MRK
ASTM209 REV 10 ((MARKED)) KRAFT PAPER
INTERLEAVED MAX GROSS
SKID WGT: 4000 LB QVAN TOL +/-30 %
COR 0214138 REV 04 CUST REQ 12-12-15 *** W/E 12-12-22 ***

Num	Package Ticket	Lot	Weight	Quantity	UOM	Inspector Clock Numbers
1	479466	694923	3537	175	PC	27888 46921
2	479467	694923	2314	114	PC	27888 46921
3	479475	694923	3458	176	PC	27888 46921
			9309	465		

Notes for COR: 0214138.4
PRODUCT PRODUCED TO THE REQUIREMENTS OF AMS4027 REV N ALSO MEET THE REQUIREMENTS OF AMS-QQ-A-250_11 ORIGINAL REVISIO N DATED 1997-08-01.

COR: 0214138.4 -Specification Limits

Temp	Dix	UTS	TYS	ELAD
T6	Long Transv.	KSI	KSI	PCT
	Max			
	Min	42.0	35.0	10

13/02/17

John J. Smith

Castor PEC# 245764 Date 02/07/2013 Del.: 2402299660

From: ThyssenKrupp Materials NA
Cust. THYSSENKRUPP MATERIALS NA - ECAD
Cstar
Wgt.: 151.782 LB

CERTIFIED INSPECTION REPORT

Alcoa Inc.

DAVENPORT WORKS 4879 State Street Bettendorf, IA 52722

Ship From: RIVERDALE, IA.

We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet the applicable requirements described therein, including any specifications forming a part of the description and that samples representative of the material met the composition limits and had the mechanical properties shown on the face of this sheet.

1468552 Ship Date 0 B.L. No. Invoice No. Alcoa No. Item
 8026 10-20 7514266 00090 1000429575-7 DB-29575-7

From: ThyssenKrupp Materials NA
 Cust. THYSSENKRUPP MATERIALS NA - ECAD
 Cstar
 Wgt.: 151.732 LB

Rob Woodall
 Director of Manufacturing, Davenport Works

Terrance Thom
 Quality Assurance Manager

P.O. No./Govt Contract No. 5400158547 Ltr#: 0010 C&B G041099100R04

Page 2 of 2

CQR: 0214138.4 - Specification Limits (cont.)

Chemical Composition		SI	FE	CU	MN	MG	CR	ZN	TI	Other	
Alloy 6061		Max	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	0.05
Lot: 694923		Min	0.40	0.15	0.8	0.04					
- Mechanical, Physical, Metallurgy, Quantometer Results											
Temp		No->									
T6		Test	UTS	KSI	TYS	ELAD					
Long Transv.		7	49.1	41.4	13.5	PCT					
			49.6	42.2	13.2						
			49	41.4	13.8						
			49.1	41.3	13.5						
			49.3	41.5	13.9						
			49.6	42.2	13						
			49.2	41.4	13.8						

Cast Number H3569032 Chemical - QES SI 0.63 FE 0.4 CU 0.27 MN 0.07 MG 0.17 CR 0.07 ZN 0.02 Actuals

13/02/17

This material was melted in the United States or a Qualifying Country [REF DEARS 225.872.1(a)]; it was manufactured in the United States

Castor PRC# 245764
 Date 02/07/2013
 Del.: 2402299660

John J. Smith

24



Sapa Industrial Extrusions
1550 KIRBY LANE

Certified Inspection Report

Cert Number
Page 1 of 2

SPANISH FORK, UT
84660-1349
Sapa Extrusions Inc., a Subsidiary of Sapa AB

Sales Order Number	Line No.	Customer P/O	Cert Creation Date	Cert Print Date
1100549314	3	5400167164-30	10-JAN-13	10-JAN-13

Invoice To Customer

COPPER & BRASS SALES INC
ATTN: ACCOUNTS PAYABLE
P.O. BOX 5116

SOUTHELD, MI - 48086

Ship To Customer

COPPER & BRASS SALES INC
8001 THYSSENKRUPP PARKWAY

NORTHWOOD, OH - 43619

Quantity Shipped	Date Shipped	Item Description	Specification
1140 LB	10-JAN-13	Extruded Rectangular Bar 2.000 TK x 2.250 W RAD	ASTM B221 REV 12 AMS-QQ-A-200/8 REV 1997 ASMESB221 REV 09
B/L	Item No.	144 IN LN FIN M-MILL W/F 5.292 F2 CS 3	
392297	Item No. Rev	6061/76511	
Delivery Id	Item No. Rev	Marking CONTINUOUS	
4389461			
Customer Part No.			
ALRECO0877			

Applicable Specifications, Revisions and Exceptions

COMPOSITION NOTE: The values for 'Others Each' and 'Others Total' have met the limits as shown on this certified inspection report. Remainder is Aluminum.

Legal Statement

We hereby certify that, unless otherwise indicated, the material covered by this report has been manufactured, inspected, and tested in accordance with, and has been found to meet, the applicable requirements described herein, including any specifications forming a part of the description and that samples representative of the material met the composition and had the mechanical properties shown on the face of this certification. Also, note that mercury is not a normal contaminant in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product. This certification is not to be reproduced in partial form without prior written approval of our Quality Assurance Dept.

Signature and Title

D Wade Bishop

Wade Bishop

Quality Control Manager

10-JAN-13

Quantities per Lot / Packages

Package Number	Lot Number	Quantity	UOM	Weight
GI4-PKG1387190	21290617	18	PCS	Gross 1146 Net 1140

Composition Limits

Alloy	Si		Fe		Cu		Mn		Mg		Cr		Zn	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
6061	0.40	0.80	---	0.70	0.15	0.40	---	0.15	0.80	1.20	0.04	0.35	---	0.25

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2402299599

CSTAR Cstor PEC# 245764

Wgt.: 63.000 LB

Date 02/07/2013

James J. Smith



Sapa Industrial Extrusions
1550 KIRBY LANE

Certified Inspection Report

SPANISH FORK, UT	84660-1349	Sales Order Number	1100549314	Line No.	3	Customer P/O	5400167164-30	Cert Number	SAPA092200	Page	2 of 2
								Cert Creation Date	10-JAN-13	Cert Print Date	10-JAN-13

Alloy	Other Each		Other Total	
	Min	Max	Min	Max
6061	---	0.15	0.05	---

Composition Results

Heat/Cast	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others Each	Others Total
SI2123101	0.73	0.36	0.29	0.07	0.91	0.05	0.04	0.03	---	---
Heat/Cast	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others Each	Others Total
SI2010508	0.73	0.41	0.32	0.07	0.92	0.07	0.06	0.03	---	---

Mechanical Property - Test Limits

Test Type	UTS - L		TYS - L		EL 4D-Long	
	UOM	KSI	UOM	KSI	PCT	
# of Test						
Test Temper	Lot Number	# of Tests	MIN Value	MAX Value	MIN Value	MAX Value
T6511	21290617	1	48.3	48.3	45.0	14.0

Cert Notes

Material manufactured to T6511 specifications also meets T6 requirements.
All elements are represented in the chemical analysis section. The remainder is Aluminum.
All alloys produced at Sapa Industrial Extrusions comply with 0.4% maximum lead per RoHS, with the exception of 6262 alloy
In accordance with EN 10204, Test Report Type 2.2 and Certificate Type 3.1
Material produced in compliance to EN 10204 3.1
Melted and Manufactured in the USA
Made in USA

From: ThyssenKrupp Materials NA
Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2402299599
CStar
Wgt.: 63.000 LB
CStar PEC# 245764
Date 02/07/2013

13/02/17

John A. Gumbert

DART
aerospaceDart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053**PURCHASE ORDER**Purchase Order ID **PO19032**

Purchase Order Date 2/06/13

PO Print Date 2/06/13

Page Number 1 of 4

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"
TORONTO, ON M5W 5V8
CA**Contact Name****Vendor Phone**

905 669 9444

Vendor Fax

905 738 9033

Vendor Account Nbr**Buyer**

Chantal Lavoie

Requisition Nbr**Tax Resale Nbr**

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	M174B0.250X4.000	17-4 SS Bar .250 X 4.00	2/15/13 Yes	48.00 f	Yours ppd	\$24.5833	\$1,180.00
		Special Inst: MATERIAL: 17-4 PH SS BAR AS PER AMS 5604/6543 GRAIN MUST BE ALONG LENGTH OF BAR					
2	M304S16CA	304/316 Sheet .063	2/15/13 Yes	320.00 sf	Yours ppd	\$4.0100	\$1,283.20
		Special Inst: MATERIAL: AISI 304/316 SS SHEET ANNEALED 2B FINISH AS MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240					
3	M304S18CA	304/316 .050 Sheet	2/15/13 Yes	200.00 sf	Yours ppd	\$3.2080	\$641.60

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required - YES / NO**Change Nbr:**

2

Change Date: 2/06/13



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO19032

Purchase Order Date 2/06/13

PO Print Date 2/06/13

Page Number 2 of 4

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275;POSTAL "A"
TORONTO, ON M5W 5V8
CA

Contact Name

Vendor Phone

Vendor Fax

Vendor Account Nbr

905 669 9444

905 738 9033

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

Special Inst:

MATERIAL: AISI 304/316 SS SHEET
ANNEALED 2B FINISH
AS MIL-S-5059 OR AMS 5513 (304) OR
AMS 5524 (316)
OR ASTM A240 OR ASME SA240

4 M6061T6S.032

✓ 6061-T6 Sheet 0.032"

2/15/13

Yes

336.00

Yours ppd

\$1,281.2

\$430.50

sf

Special Inst:

MATERIAL: 6061-T6/T62 ALUMINUM
SHEET
AS PER QQ-A-250/11 OR AMS-QQ-A-
250/11
OR AMS 4025 OR AMS 4027 OR ASTM
B209

5 M6061T6S.080

6061-T6 .080 Sheet

2/15/13

Yes

✓ 144.00

Yours ppd

\$2,847.2

\$410.00

sf

Special Inst:

MATERIAL: 6061-T6/T62 ALUMINUM
SHEET
AS PER QQ-A-250/11 OR AMS-QQ-A-
250/11
OR AMS 4025 OR AMS 4027 OR ASTM
B209

6 M6061T6S.188

6061-T6 .188 Sheet

2/15/13

Yes

X 64.00

Yours ppd

\$2,133.0

\$136.51

sf

Change Nbr:

2

Change Date: 2/06/13

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required YES NO



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO19032

Purchase Order Date 2/06/13

PO Print Date 2/06/13

Page Number 3 of 4

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"
TORONTO, ON M5W 5V8
CA

Contact Name

Vendor Phone

905 669 9444

Vendor Fax

905 738 9033

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

Special Inst:

MATERIAL: 6061-T6/T62 ALUMINUM
SHEET
AS PER QQ-A-250/11 OR AMS-QQ-A-
250/11
OR AMS 4025 OR AMS 4027 OR ASTM
B209

7 M6061T632.000X02.250

6061-T6 Bar 2.00 x 2.25

2/15/13

Yes

12.00 Yours ppd

f

\$13,0667

\$156.80

Special Inst:

MATERIAL: 6061-
T6/T651/T6510/6511T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8
OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR
AMS 4160 OR ASTM B211 OR
ASTM B221

8 M6061T630.625X02.500

6061-T6 Bar .625 x 2.50

2/15/13

Yes

24.00 Yours ppd

f

\$34,833

\$83.60

Special Inst:

MATERIAL: 6061-
T6/T651/T6510/6511T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8
OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR
AMS 4160 OR ASTM B211 OR
ASTM B221

9 M6061T631.500X02.500

6061-T6 Bar 1.50 x 2.50

2/15/13

Yes

24.00 Yours ppd

f

\$8,8917

\$201.40

Change Nbr:

2

Change Date: 2/06/13

No substitution or deviation without
consent.

Certificate of Conformity or Material
Certification required - YES NO

DART
aerospaceDart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053**PURCHASE ORDER**Purchase Order ID **PO19032**

Purchase Order Date 2/06/13

PO Print Date 2/06/13

Page Number 4 of 4

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275, POSTAL "A"
TORONTO, ON M5W 5V8
CA**Contact Name****Vendor Phone**

905 669 9444

Vendor Fax

905 738 9033

Vendor Account Nbr**Buyer**

Chantal Lavoie

Requisition Nbr**Tax Resale Nbr**

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

M/2, 572

Special Inst:MATERIAL: 6061-
T6/T651/T6510/6511 T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8
OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR
AMS 4160 OR ASTM B211 OR
ASTM B221

10 M6063T5A0.750W.063

Angle 6063T5 .750 X .750
X.063w

2/15/13

63.00 Yours ppd

\$0.4762

\$30.00

Yes

f

11 D6201P

T Extrusion 4X4X3/8

2/15/13

27.20 Yours ppd

\$9.9500

\$270.67

Yes

f

Special Inst:

AS PER DWG D6201 REV. A

B96808

T-BEAM EXTRUSION SIZE: 4.000" X
4.000" X 0.375"

MINIMUM TENSILE STRENGTH = 38 KSI

MINIMUM YIELD TENSILE STRENGTH
= 35 KSIMATERIAL: 6061-T6/T6511 AS PER QQ-
A-200/8**PO Total:**

\$4,824.28

MATERIAL CERTIFICATION
REQUIRED UPON DELIVERY**Change Nbr:**

2

Change Date: 2/06/13No substitution or deviation without
consent.Certificate of Conformity or Material
Certification required - YES NO